micro tracking
SO EASY TO FIND

Microtracking user Guide

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Normally in the beginning of a user guide there is some flowery sales spiel thanking you for purchasing our products. Well here we go.

Cheers!

As you may have noticed Microtracking is different, you've downloaded this manual for a reason. So let's get crack'n' and do some Microtracking (sorry couldn't resist the rhyme).

Words of caution, these instructions are based around a Motorola Defy running Android 2.2.2 so your screens may not look exactly the same as mine do in the videos. The options should be available on other Android versions.

Your Phone must have internet access to send data to our servers.

Firstly we are going to need your phones IMEI number.

What's my IMEI number?

The IMEI is your phones unique ID which will not change even if you exchange sim cards or networks. We use this for security. Our servers will only grant access to phones with their IMEI numbers in our database.

How do I find my IMEI number?

On most phones simply dial *#06# and your IMEI will pop up. You can save this number to your contacts ready for when you need it next. Write it down as we will need it.

Alternatively you can find the IMIE number inside your phone.

1. Ensure the phone is off.
2. Remove the battery.
3. Look in the phone for a white sticker/label (check out that barcode), which will now be exposed after battery removal. The IMIE should be the first 15 digits (exclude any slashes and letters) of the number under the barcode.

Important

Once you have found your IMIE number you will need to send it to us info@microtracking.se along with your company and contact details. We will then add your details to our server. This will grant access and we will issue you with your own **user name** and **password**. These you will need later when we set up Microtracking.

Secondly we need to ensure your mobile device has some settings changed so we get a smooth installation of Microtracking.

1. Turn on **Bluetooth** and pair your Blueberry via Bluetooth (so we can scan tags with the Blueberry later)
2. Allow **Unknown sources** (this allows the installation of Microtracking, via non-market sources. You can turn it off once the installation is complete).
3. Turn on **GPS** (this activates the GPS module so that tag location data can be uploaded to the Microtracking servers).This is an optional extra.
   Please be aware that turning on these services will increase the drain on your battery.

If you know how to do this, go ahead, and I will catch you later at the installation instructions.

So, you need some help?

Set up Microtracking

Turn on your phones Bluetooth & Pairing: 1

To turn on Bluetooth and connect to an RFID reader

1. On the Home screen, press the **Menu** key
2. Touch the **Settings** icon.
3. Touch the **Wireless & networks** icon.
4. Touch the **Bluetooth settings** icon.
5. Touch the **Bluetooth** icon to turn it On (Ensure the tick is highlighted green).
6. Touch the **Scan for devices** icon (Ensure Blueberry is on, see page 10).
7. Select the **TERTIUM_BBU** device when scanning is complete.

8. Enter the pairing code of **"0000"** then touch **OK**. Do this quite quickly or it will not pair in time. When this operation fails just repeat steps 7 &8
   The phone will display "Paired but not connected"when successful.

9. Press the **Home** key.

[Turn on Bluetooth and pairing video]

Allow unknown Sources.

1. On the Home screen, press the **Menu** key.
2. Touch the **Settings** icon.
3. Touch the **Applications** icon.
4. Touch **Unknown sources** icon and ensure that the tick is green.
5. Touch **OK**; you can turn this off later after installation if you want to.
6. Press the **Home** key to return to the home screen.

Turn on GPS (Required for optional tag location data).

1. On the Home screen, press the **Menu** key.
2. Touch the **Settings** icon.
3. Touch the **Location & Security** icon.
4. Touch the **Use GPS satellites** icon and ensure that the tick is green.
5. Press the **Home** key to return to the home page.

[GPS and Unknown source movie]

Now we need to install a 2D Barcode reader application

Already have a 2D barcode application installed. Open the application and then follow steps 14-16

Installation of 3rd party Barcode Application to demo 2D scanning

1. Touch the **Home** key.
2. Scroll and find the **Market** icon.
3. Touch the **Market** icon: This will open the online Android market site (A wireless network or mobile broadband connection is required for this to work).
4. Touch the **Search** icon (magnifying glass).
5. Enter **Zx** in the search bar using the touch pad.
6. Select **Zxing** for the list.
7. Select **Barcode Scanner.**

8. Touch the **Install** icon.
9. Touch the **Storage** icon from the list.
10. Touch the **OK** icon to accept (This allows Barcode scanner to save your scanned data to the mass memory).
11. Touch the **Accept & Download** icon, wait while the application downloads and installs.
12. Touch the **Open** icon.
13. Touch the **Done** icon.
14. Now scan the Barcode below by placing the barcode inside the viewfinder rectangle to scan it.
15. Touch the **Open browser** icon. Microtracking will be downloaded.
16. Press the **Home** key

Barcode Application Installation movie

Zxing Application Help

How and where to get Microtracking

Please Scan

Installation of Microtracking from a location on your phone

Once you've downloaded Microtracking and it's on your phone we need to install it.

I am going to use Androids quickoffice for these instructions. Quickoffice is Androids default document viewer on many Android devices.

1. Press the **Home** key.
2. Locate and touch the **Quickoffice** icon by scrolling the page.

Browse to the saved location of Microtracking.

3. Touch the **Memory card** icon followed by the **download** icon.
4. Touch the **Microtracking_demo_kit** icon.
5. Touch the **install** icon. Wait while Microtracking installs.
6. Touch the **Open** icon. Microtracking will open.
7. You will be invited to "synchronise work flow settings".
8. Touch the **Ok** icon.
9. Press the **Home** key.

Installation of Microtracking movie

Now we can set up the rest of the application.

Selecting devices for use with Microtracking: 2

1. Press the **Menu** Button and find the **Microtracking** icon press it to open the application
2. You may be asked to "synchronise your work flow settings", press **Ok**.
3. Touch the blue **Settings** icon
4. Touch the **Select external device** icon
5. Touch the **Discover devices** icon and wait until the Blueberry has been found ensuring that the RFID reader is on. If you're using the Blueberry, turn on the Blueberry by pressing the button for greater than one second.
6. When completed select the desired device from the list (you may have discovered more than one device so make sure you have the correct device).
7. Touch the **Save** icon followed by **OK,** that appears on the pop up screen.
8. Press the **back** key to return to the settings screen.

Turn on Bluetooth and pairing video

Login set up: 3

1. From the settings screen touch the blue **Login settings** icon. From the home screen follow 1-3 of the pairing instructions.
2. Enter the **Server name (demokit)** using the touch pad, when done, check it, and then touch **Next** on the touch pad.
3. Enter your user name followed by **Next.**
4. Enter your password followed by **Next.**
5. Now touch the blue **Test login** icon.
6. When notified of a successful login touch **Ok.**
7. Touch the blue **Save** icon.
8. Touch the **Back** key.
9. Touch the **Synchronize workflow** icon
10. Touch the **Ok** icon.
11. Touch the **Home** key.

Login video

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If your **Test login** fails check your login details and try again.
We will the need your IMEI number of your Android mobile phone registered in our database, for you to access the cloud servers and your scanned data.

How to use Microtracking:

Scan & Track 2D Barcodes

Scan

1. Touch the **Microtracking** icon to launch the application.
2. Touch the **SCAN** icon.
3. Touch the **2D Barcode** icon.
4. Now scan away by placing a barcode inside the viewfinder rectangle to scan it. The device will lock on and capture the data.
5. Now you can scan more items using the **Scan more** icon. The **tag count** will increment by 1 with each successful scan, or if scanning is complete you can upload the scanned data by touching the **SEND** icon. This will create an "Event" on the Microtracking servers.

The Microtracking menu screen will be displayed after the send operation is complete.

Track

1. Touch the **Microtracking** icon to launch the application.
2. Touch the **TRACK** icon.
3. Touch the **2D Barcode** icon.
   Now scan away by placing a barcode inside the viewfinder rectangle to scan it. The device will lock on and capture the data.
4. Now you can track more items using the **Track another item** icon or if scanning is complete you can upload the Track request by touching the **SEND** icon.

   The cloud server will reply with found "Events". Touch the **View event details** icon for more information on your track request.

5. Press the **Back** key to return the Microtracking menu screen.

2D Scan & Track...the movie

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Scan & Track RFID Tags

Scan

1. Touch the **Microtracking** icon to launch the application.
2. Touch the **SCAN** icon.
3. Touch the **RFID** icon. (Application will connect to Bluetooth device).
4. Read the RFID tag. Point the Blueberry (or other Bluetooth devise) at the RFID tag and give the reader's button a quick press. The Blueberry will give a triple bleep and triple flash of the yellow LED when successfully reading the tag.
5. Tag details will be displayed. To continue scanning just point the Blueberry and press it's button. The **tag count** will increment by 1 with each successful scan.
6. When done, touch the **SEND** icon on the application to upload data (events) to the server.
7. The Microtracking home menu will be displayed.

Track

1. Touch the **Microtracking** icon to launch the application.
2. Touch the **TRACK** icon.
3. Touch the **RFID** icon.
4. Read the RFID tag. Point the Blueberry (or other Bluetooth devise) at the RFID tag and give the reader's button a quick press. The Blueberry will give a triple bleep and triple flash of the yellow LED when successfully reading the tag.
5. Tag details will be displayed.
6. Touch the **View history** icon. The application will track the item on the server and display any found events.
7. Touch the **View event details** icon. This will display the event details.
8. Touch the **Track event on map** icon to view the tags location (optional feature).
9. Press the **Back** key to return to the Microtracking menu screen.
10. Press **Home** key to return to the phone's home screen.

RFID Scan and Track... the movie

To view events, EPCIS information

1. Go to https://demokit.microtracking.se/microtracking/
2. Enter your username and password(same as the one used to set up the application)
3. Login

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Microtracking's quick guide to the Blueberry

The Button

Turning on:
Press and hold the button for greater than 1 second.

No tag in range or unable to read tag:
One flash of the yellow LED with single audible bleep when button is pressed.

Tag reading:
Triple flash of the yellow LED and a single audible bleep when button is pressed.

With the Blueberry connected to a device.

Tag reading and Bluetooth transmission:
Triple flash of yellow LED with triple audible bleep when button is pressed.

Turning off:
Press and hold the button for greater than 1 second.

Charging:
Connect the Blueberry with a Micro USB cable to any suitable USB wall charger, USB port on a PC, Laptop or USB hub.

Tertium Blueberry Video

Trouble shooting Microtracking

"Unable to connect to Bluetooth socket"

1. Make sure the Blueberry is on and fully charged.
2. Cycle power on the Blueberry and try again. If you still get this message.
3. Restart the Microtracking application. Still having issues?
4. Restart phone and Blueberry and try again. Still having issues?
5. Follow the Setting up instructions parts 1 and 2 for Bluetooth.

"Blueberry bleeps but scan does not register"

1. Press the **back** key.
2. Select **SCAN** or **TRACK**, select **2D** or **RFID** and try again.
3. Still having issues? Then restart the Blueberry.

Do not press the Blueberry's button while the phone or Microtracking is establishing a connection. Pressing the button will cause these scan errors. If the Blueberry is off when you try to connect or scan please wait until the connection error is displayed. Then turn on the Blueberry and select **SCAN** or **TRACK** again in the Microtracking application.

If your Test login fails

Check your login details and try again.
We will the need your IMEI number of your Android mobile phone registered in our database, for you to access the cloud servers and your scanned data.

Short battery life

When Microtracking is in use it will need to access Bluetooth and GPS. These services will increase the demand on your battery.

We advise that you turn off these services when not required, as they will be running in the background, even after you leave the application or return to the home screen.

Information about Android

"Android itself decides when to close the application (i.e. remove its instance from the memory) and generally this is done when your application becomes the oldest application that is not being used."

We are currently in the process of discussing ways to reduce the drain on the battery which is customer friendly. (Auto toggle)

May I suggest a couple of work a rounds at this time?

A: Turn on/Off GPS and Bluetooth Manually.

6. On the Home screen, press the **Menu** key.
7. Touch the **Settings** icon.
8. Touch the **Location & Security** icon.
9. Touch the **Use GPS satellites** icon to turn it off. Ensure that the tick is grey.

Press the **Home** key to return to the home page

10. On the Home screen, press the **Menu** key
11. Touch the **Settings** icon.
12. Touch the **Wireless & networks** icon.
13. Touch the **Bluetooth settings** icon.
14. Touch the **Bluetooth** icon to turn it off. Ensure the tick is grey.

Press the **Home** key to return to the home page.

B: Download and Install Power widget

https://market.android.com/details?id=at.abraxas.powerwidget.free

With Power Widget you gain quick access to most of your important settings and most importantly it is highly customisable. Change background transparency, the order of your toggles or even how many toggles you put on your toggle bar is up to you. This includes a quick toggle for GPS.

I have mine set for Wi-Fi, Bluetooth, GPS, and flight mode, by having a quick toggle for Bluetooth and GPS; I can quickly turn off these services when I am not Microtracking.

Still having issues with Microtracking? Then please visit our website www.microtracking.se/customer-support for the latest FAQ's, articles and our support ticket system.

We will gladly assist you with your Blueberry. You can also visit http://www.tertiumtechnology.com for more assistance and information on Blueberry devices.

For support of Zxing please visit http://code.google.com/p/zxing/wiki/FrequentlyAskedQuestions

We can help you through the installation and connection of Microtracking onto your mobile device. We can also direct you to support websites and support staff for your mobile device; as we do not provide support for all the different hardware devices and networks in the market place. We will leave that to the manufacturers, suppliers and network providers.
We will however do everything we can to ensure the maximum uptime of Microtracking.

Regards

Microtracking